

# ACT Profile Report - State

Graduating Class 2012  
Colorado



ACT, INC. -- CONFIDENTIAL



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This report provides information about the performance of your 2012 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2012 and tested under standard time conditions.

This report focuses on:

**Performance** - student test performance in the context of college readiness

**Access** - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

**Course Selection** - percent of students pursuing a core curriculum

**Course Rigor** - impact of rigorous coursework on achievement

**College Readiness** - percent of students meeting ACT College Readiness Benchmark Scores in each content area

**Awareness** - extent to which student aspirations match performance

**Articulation** - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students meeting or exceeding ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

**The ACT is a curriculum-based measure of college readiness. ACT components include:**

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

**The ACT:**

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at [www.act.org/standard/infoserv.html](http://www.act.org/standard/infoserv.html).

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to [www.act.org](http://www.act.org)

## How to Improve Scores and Increase College Readiness

25% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

**PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT:** 53,071 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

**MAKING CORE CURRICULUM A PRIORITY:** Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 62% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

**MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES:** Table 3.2 reports 9% of the cohort took less than three years of math courses. Of these students, 8% were college ready. 13% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 11% of these students were college ready. In comparison, 54% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 15% of the cohort took less than three years of natural science courses. 13% of these students were college ready. In comparison, 36% of students who took at least three years of science coursework were college ready.

**EVALUATING RIGOR OF COURSES:** Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 50% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

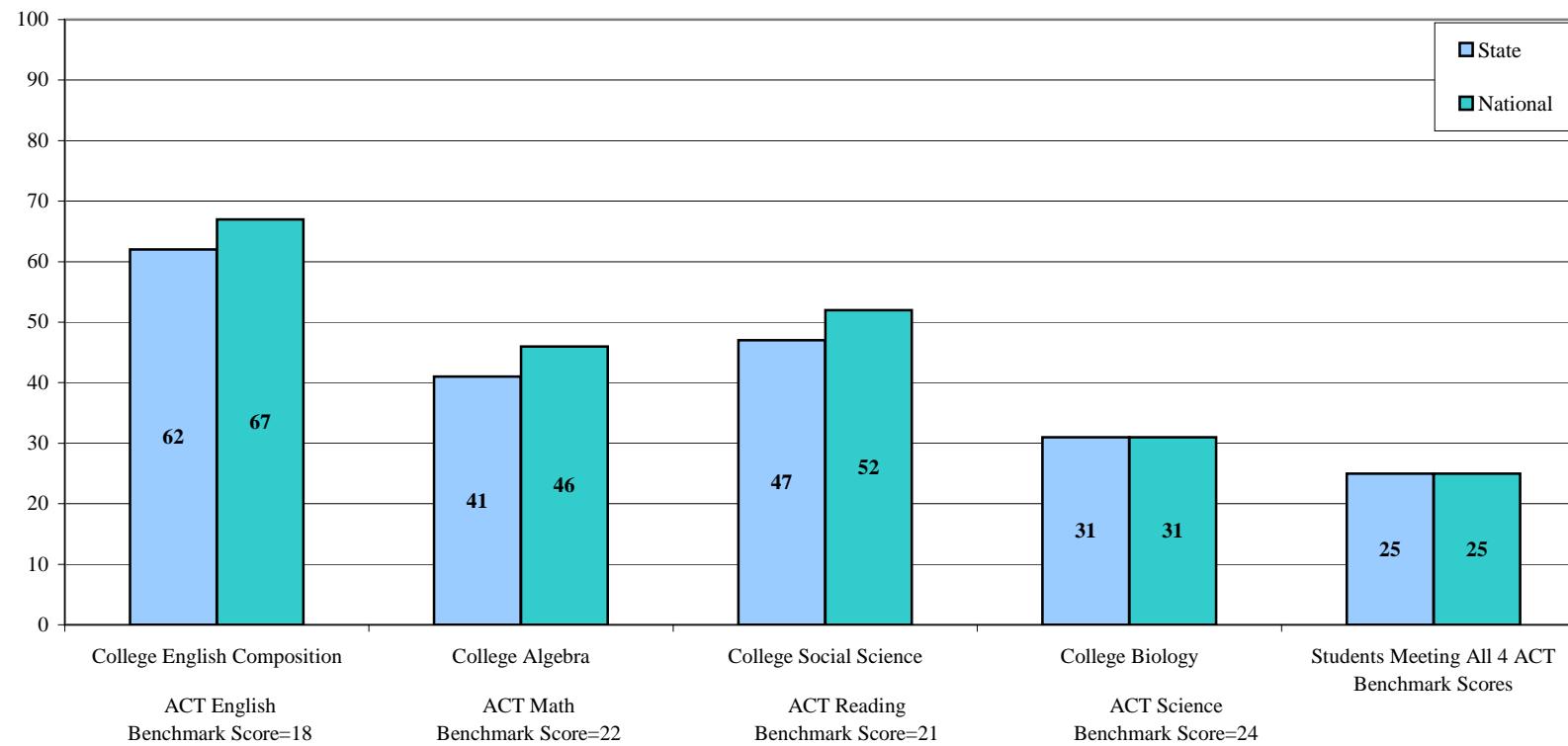
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS:** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 303-337-3273.

# Section I

## Executive Summary

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

**Figure 1.1. Percent of Your Students Ready for College-Level Coursework**

A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

**Table 1.1. Five Year Trends—Percent of Students Meeting College Readiness Benchmarks**

Year	Number of Students Tested		Percent Meeting Benchmarks									
	English		Mathematics		Reading		Science		Meeting All Four			
	State	National	State	National	State	National	State	National	State	National		
2008	50,420	1,421,941	62	68	38	43	48	53	25	28	20	22
2009	51,087	1,480,469	64	67	39	42	51	53	28	28	22	23
2010	52,115	1,568,835	62	66	39	43	51	52	28	29	23	24
2011	52,930	1,623,112	63	66	40	45	49	52	29	30	23	25
<b>2012</b>	<b>53,071</b>	<b>1,666,017</b>	<b>62</b>	<b>67</b>	<b>41</b>	<b>46</b>	<b>47</b>	<b>52</b>	<b>31</b>	<b>31</b>	<b>25</b>	<b>25</b>

**Table 1.2. Five Year Trends—Average ACT Scores**

Year	Number of Students Tested		Average ACT Scores									
	English		Mathematics		Reading		Science		Composite			
	State	National	State	National	State	National	State	National	State	National		
2008	50,420	1,421,941	19.8	20.6	20.3	21.0	20.8	21.4	20.4	20.8	20.5	21.1
2009	51,087	1,480,469	20.1	20.6	20.5	21.0	21.1	21.4	20.8	20.9	20.8	21.1
2010	52,115	1,568,835	19.9	20.5	20.4	21.0	21.1	21.3	20.7	20.9	20.6	21.0
2011	52,930	1,623,112	20.1	20.6	20.4	21.1	20.9	21.3	20.7	20.9	20.7	21.1
<b>2012</b>	<b>53,071</b>	<b>1,666,017</b>	<b>19.9</b>	<b>20.5</b>	<b>20.5</b>	<b>21.1</b>	<b>20.7</b>	<b>21.3</b>	<b>20.8</b>	<b>20.9</b>	<b>20.6</b>	<b>21.1</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested		Average ACT Scores					
	English		Mathematics		Reading		Science	
	State	National	State	National	State	National	Composite	
2008	1,421,941		20.6	21.0	21.4		20.8	21.1
2009	1,480,469		20.6	21.0	21.4		20.9	21.1
2010	1,568,835		20.5	21.0	21.3		20.9	21.0
2011	1,623,112		20.6	21.1	21.3		20.9	21.1
<b>2012</b>	<b>1,666,017</b>		<b>20.5</b>	<b>21.1</b>	<b>21.3</b>		<b>20.9</b>	<b>21.1</b>

**Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation**

Year	Number of Students Tested		Percent <sup>2</sup>		English		Mathematics		Reading		Science		Composite	
	Core or More <sup>1</sup>	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2008	28,084	17,279	56	34	21.7	17.5	21.9	18.3	22.5	18.9	21.9	18.6	22.1	18.5
2009	30,390	16,169	59	32	21.9	17.8	22.1	18.4	22.7	19.0	22.2	19.0	22.4	18.7
2010	31,733	15,813	61	30	21.8	17.3	21.9	18.2	22.6	18.9	22.1	18.7	22.2	18.4
2011	32,470	15,696	61	30	21.9	17.4	21.9	18.2	22.5	18.8	22.2	18.6	22.3	18.4
<b>2012</b>	<b>33,071</b>	<b>15,013</b>	<b>62</b>	<b>28</b>	<b>21.7</b>	<b>17.3</b>	<b>21.9</b>	<b>18.3</b>	<b>22.2</b>	<b>18.5</b>	<b>22.1</b>	<b>18.7</b>	<b>22.1</b>	<b>18.3</b>

<sup>1</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

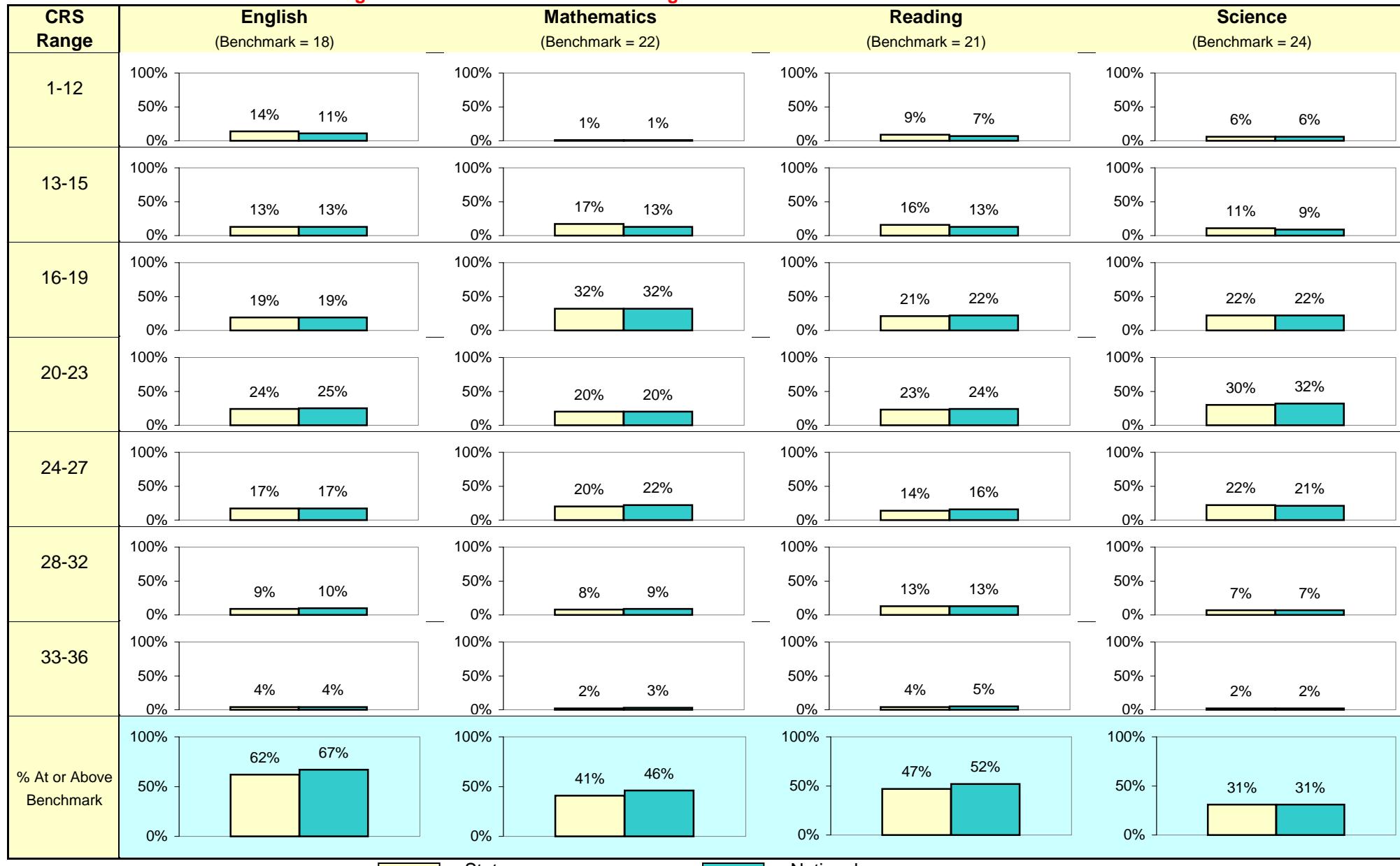
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

**Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity<sup>1</sup>**

	2008			2009			2010			2011			2012		
	N	%	Avg												
All Students	<b>50,420</b>	<b>100</b>	<b>20.5</b>	<b>51,087</b>	<b>100</b>	<b>20.8</b>	<b>52,115</b>	<b>100</b>	<b>20.6</b>	<b>52,930</b>	<b>100</b>	<b>20.7</b>	<b>53,071</b>	<b>100</b>	<b>20.6</b>
Black/African American	1,973	4	17.1	2,003	4	17.7	2,289	4	17.4	2,275	4	17.4	2,059	4	17.3
American Indian/Alaska Native	913	2	17.9	916	2	18.1	556	1	18.8	562	1	18.7	401	1	17.9
White	28,195	56	21.9	28,835	56	22.2	31,165	60	22.1	30,493	58	22.3	29,884	56	22.2
Hispanic/Latino	7,431	15	17.2	7,992	16	17.6	8,997	17	17.2	10,520	20	17.4	13,290	25	17.6
Asian	1,577	3	21.4	1,676	3	21.6	1,702	3	21.7	1,656	3	21.7	1,612	3	21.6
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	39	0	19.3	170	0	19.8
Two or more races	1,913	4	20.2	2,168	4	20.7	2,495	5	20.2	2,504	5	20.6	2,116	4	21.2
Prefer not to respond/No response	8,418	17	19.4	7,497	15	19.4	4,911	9	19.2	4,881	9	19.2	3,539	7	19.8

<sup>1</sup>Refer to the section header on page 5 for a description of race/ethnicity changes.

Table 1.6. Percent of Students in College Readiness Standards Score Ranges



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# Section II

# Academic Achievement

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 53,071

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	139	100	110	100	395	100	169	100	26	100	36
35	476	100	217	100	305	99	267	100	117	100	35
34	850	99	318	99	668	99	118	99	231	100	34
33	720	97	475	99	958	97	311	99	426	99	33
32	758	96	453	98	1,099	96	503	98	585	98	32
31	791	94	441	97	1,393	94	645	97	834	97	31
30	1,006	93	870	96	1,316	91	742	96	1,091	96	30
29	940	91	1,110	95	1,377	88	822	95	1,301	94	29
28	1,340	89	1,421	92	1,522	86	1,132	93	1,639	91	28
27	1,468	87	2,214	90	1,625	83	2,294	91	1,983	88	27
26	1,958	84	2,378	86	1,657	80	2,248	87	2,119	84	26
25	2,657	80	2,885	81	1,806	77	3,112	83	2,668	80	25
24	2,717	75	3,347	76	2,361	73	4,071	77	2,890	75	24
23	3,006	70	3,149	69	3,412	69	2,647	69	3,088	70	23
22	2,604	65	2,411	63	2,420	63	4,073	64	3,232	64	22
21	3,597	60	2,175	59	2,891	58	4,444	56	3,471	58	21
20	3,353	53	2,649	55	3,717	53	4,658	48	3,554	52	20
19	2,427	47	2,693	50	2,405	46	4,118	39	3,396	45	19
18	2,338	42	2,864	45	4,016	41	2,860	31	3,411	38	18
17	2,216	38	4,153	39	2,253	33	2,458	26	3,436	32	17
16	3,190	33	7,292	32	2,233	29	2,265	21	3,161	26	16
15	3,036	27	5,587	18	3,573	25	2,126	17	2,895	20	15
14	2,053	22	2,680	7	3,035	18	1,912	13	2,642	14	14
13	1,813	18	847	2	1,697	13	1,710	10	2,311	9	13
12	1,041	14	230	1	2,334	9	1,261	6	1,686	5	12
11	1,551	12	69	1	976	5	959	4	686	2	11
10	1,969	9	17	1	1,018	3	865	2	147	1	10
9	1,410	6	13	1	280	1	157	1	29	1	9
8	942	3	0	1	172	1	86	1	8	1	8
7	489	1	0	1	80	1	11	1	5	1	7
6	150	1	0	1	42	1	18	1	2	1	6
5	50	1	0	1	4	1	5	1	0	1	5
4	12	1	2	1	17	1	2	1	0	1	4
3	1	1	0	1	6	1	0	1	0	1	3
2	1	1	0	1	5	1	0	1	1	1	2
1	2	1	1	1	3	1	2	1	0	1	1
Avg (SD)	19.9 (6.6)		20.5 (5.2)		20.7 (6.4)		20.8 (5.2)		20.6 (5.4)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subtest Score Averages**

ACT Scale Score	English				Reading				Mathematics				ACT Scale Score		
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	1,639	100	607	100	1,401	100	1,428	100	1,681	100	388	100	603	100	18
17	1,645	97	958	99	2,254	97	2,280	97	1,967	97	169	99	76	99	17
16	2,641	94	2,421	97	2,699	93	2,856	93	1,927	93	1,063	99	1,412	99	16
15	1,798	89	3,135	92	2,532	88	3,119	88	2,816	89	2,035	97	2,892	96	15
14	3,310	85	4,020	87	2,918	83	3,475	82	3,067	84	3,953	93	4,364	91	14
13	2,102	79	4,395	79	3,633	78	3,708	75	3,774	78	5,498	86	5,179	82	13
12	4,051	75	5,004	71	6,749	71	3,926	68	5,321	71	3,995	75	4,767	73	12
11	4,487	68	6,642	61	4,300	58	3,858	61	3,304	61	7,960	68	6,842	64	11
10	5,922	59	4,826	49	4,835	50	4,145	54	4,875	55	6,106	53	8,775	51	10
9	4,485	48	5,333	40	4,600	41	6,324	46	2,902	46	6,405	41	5,696	34	9
8	4,173	40	4,345	30	4,412	32	4,270	34	6,970	40	5,607	29	4,987	23	8
7	4,058	32	3,840	21	6,468	24	3,460	26	7,302	27	4,618	19	3,845	14	7
6	3,613	24	1,838	14	2,507	12	3,458	19	4,123	14	2,827	10	546	7	6
5	4,178	17	2,547	11	2,673	7	4,208	13	2,305	6	329	5	1,869	6	5
4	2,286	9	1,823	6	677	2	1,347	5	493	1	1,435	4	271	2	4
3	1,945	5	1,089	3	282	1	805	2	77	1	100	1	711	2	3
2	630	1	236	1	94	1	384	1	143	1	454	1	91	1	2
1	108	1	12	1	37	1	20	1	24	1	129	1	145	1	1
Avg (SD)	9.8 (4.0)		10.4 (3.5)		10.6 (3.6)		10.4 (3.9)		10.4 (3.6)		10.2 (3.0)		10.6 (3.0)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

**Table 2.3. ACT Score Quartile Values**

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	24	24	25	24	24
Q2 (50th Percentile)	20	20	20	21	20
Q1 (25th Percentile)	15	16	16	17	16

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity<sup>1</sup> by Level of Preparation**

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More <sup>2</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	53,071	62	22.1	18.3
	Black/African American	2,059	56	18.5	16.0
	American Indian/Alaska Native	401	52	19.5	16.1
	White	29,884	69	23.4	19.7
	Hispanic/Latino	13,290	51	19.0	16.5
	Asian	1,612	71	23.0	19.2
	Native Hawaiian/Other Pac. Isl.	170	61	21.1	17.5
	Two or more races	2,116	64	22.3	19.2
	Prefer not/No Response	3,539	51	22.1	17.7
National	All Students	1,666,017	76	21.8	19.1
	Black/African American	222,237	72	17.5	15.9
	American Indian/Alaska Native	13,523	66	19.3	16.9
	White	983,148	77	23.0	20.3
	Hispanic/Latino	234,456	73	19.5	17.4
	Asian	68,080	81	24.1	21.8
	Native Hawaiian/Other Pac. Isl.	4,545	74	20.4	18.3
	Two or more races	55,500	76	22.0	19.6
	Prefer not/No Response	84,528	68	22.5	19.2

<sup>1</sup>Refer to the section header on page 11 for a description of race/ethnicity changes.<sup>2</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.**Table 2.5. Average ACT Scores by Race/Ethnicity<sup>1</sup>**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	19.9	20.5	20.7	20.8	20.6
	Black/African American	16.3	17.5	17.2	17.6	17.3
	American Indian/Alaska Native	16.5	18.0	17.9	18.5	17.9
	White	21.8	21.8	22.4	22.2	22.2
	Hispanic/Latino	16.4	17.9	17.6	18.1	17.6
	Asian	20.6	22.8	20.9	21.7	21.6
	Native Hawaiian/Other Pac. Isl.	18.9	19.8	19.6	20.2	19.8
	Two or more races	20.7	20.8	21.5	21.2	21.2
	Prefer not/No Response	19.0	19.8	20.0	20.0	19.8
National	All Students	20.5	21.1	21.3	20.9	21.1
	Black/African American	16.0	17.3	17.2	17.2	17.0
	American Indian/Alaska Native	17.1	18.5	18.7	18.7	18.4
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.7	19.4	19.0	18.9	18.9
	Asian	22.7	25.2	22.9	23.2	23.6
	Native Hawaiian/Other Pac. Isl.	18.9	20.4	19.8	19.7	19.8
	Two or more races	21.0	21.1	21.8	21.2	21.4
	Prefer not/No Response	20.7	21.3	21.5	20.9	21.3

<sup>1</sup>Refer to the section header on page 11 for a description of race/ethnicity changes.

**Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges**

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	2,185	4	1,120	2	2,326	4	865	2
	28 to 32	4,835	9	4,295	8	6,707	13	3,844	7
	24 to 27	8,800	17	10,824	20	7,449	14	11,725	22
	20 to 23	12,560	24	10,384	20	12,440	23	15,822	30
	16 to 19	10,171	19	17,002	32	10,907	21	11,701	22
	13 to 15	6,902	13	9,114	17	8,305	16	5,748	11
	01 to 12	7,618	14	332	1	4,937	9	3,366	6
National	33 to 36	74,039	4	50,719	3	81,737	5	30,082	2
	28 to 32	167,405	10	149,540	9	223,134	13	123,485	7
	24 to 27	291,143	17	369,818	22	262,453	16	355,144	21
	20 to 23	414,094	25	332,787	20	399,794	24	532,341	32
	16 to 19	318,585	19	538,042	32	366,975	22	373,233	22
	13 to 15	210,405	13	216,778	13	220,083	13	158,083	9
	01 to 12	190,346	11	8,333	1	111,841	7	93,649	6

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	26,152	49	19.4	20.9	20.3	21.0	20.5
	Females	26,858	51	20.5	20.1	21.1	20.5	20.7
	Missing	61	0	13.3	16.2	15.9	16.9	15.7
National	Males	761,554	46	20.2	21.7	21.2	21.4	21.2
	Females	900,625	54	20.9	20.6	21.4	20.5	21.0
	Missing	3,838	0	16.1	17.8	17.6	17.8	17.5

**Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender**

Student Group	Gender	Percent of Students					Meet All Four
		English	Mathematics	Reading	Science	All Four	
State	Males	59	44	45	34	27	
	Females	66	38	50	28	23	
National	Males	64	50	51	35	29	
	Females	69	42	53	27	22	

**Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum**

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>4</sup>	Avg
State	Core or More <sup>2</sup>	33,071	74	21.7	53	21.9	58	22.2	40	22.1	33	22.1
	Less than Core	15,013	45	17.3	22	18.3	32	18.5	16	18.7	11	18.3
	Missing <sup>3</sup>	4,987	36	15.8	20	17.8	25	17.2	14	17.8	10	17.3
National	Core or More	1,259,744	72	21.3	51	21.8	57	22.0	35	21.6	29	21.8
	Less than Core	355,849	51	18.3	29	19.1	38	19.4	19	19.1	14	19.1
	Missing	50,424	38	16.2	22	18.1	27	17.6	14	17.8	10	17.6

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.<sup>2</sup> "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.<sup>3</sup> Zero years or no coursework information reported in one or more content areas.<sup>4</sup> Composite CRB% results reflect students who meet all four subject-area benchmarks.**Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum**

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics			Reading			Science			
			N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More <sup>2</sup>	43,015	68	20.8	43,712	47	21.2	42,712	53	21.5	40,304	36	21.6	
	Less than Core	5,781	39	16.2	4,836	8	16.4	5,849	27	17.8	8,199	13	18.2	
	Missing <sup>3</sup>	4,275	37	16.0	4,523	20	17.8	4,510	26	17.4	4,568	15	17.9	
National	Core or More	1,558,562	68	20.8	1,550,768	48	21.4	1,471,658	54	21.6	1,425,217	33	21.4	
	Less than Core	64,748	41	16.5	69,741	8	16.6	149,266	40	19.7	194,661	13	18.4	
	Missing	42,707	40	16.5	45,508	22	18.2	45,093	29	17.8	46,139	14	17.9	

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.<sup>2</sup> "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

<sup>3</sup> Zero years or no coursework information reported in the specified content area.

# Section III

## College Readiness and the

## Impact of Course Rigor

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

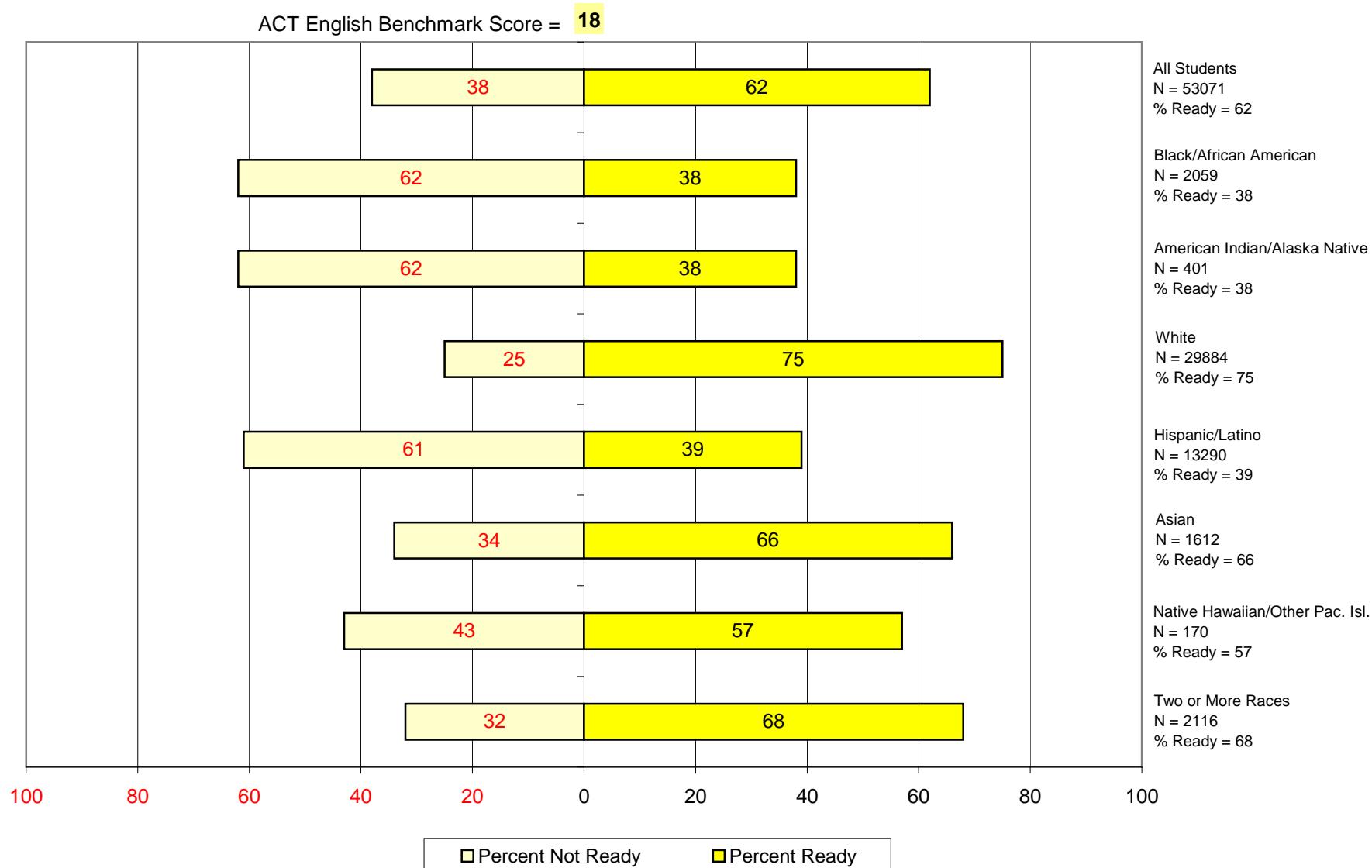
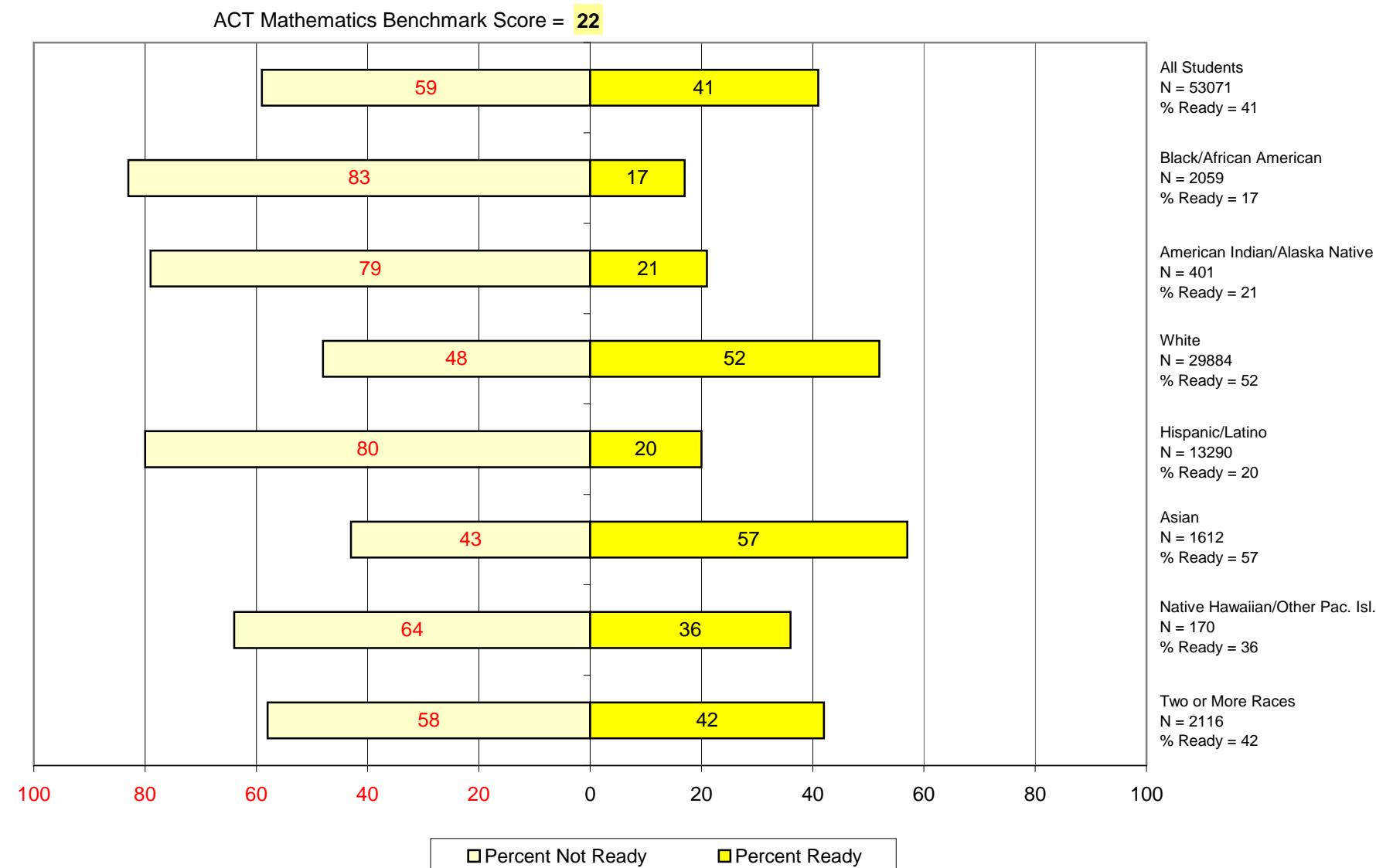
Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ENGLISH<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: MATHEMATICS

<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

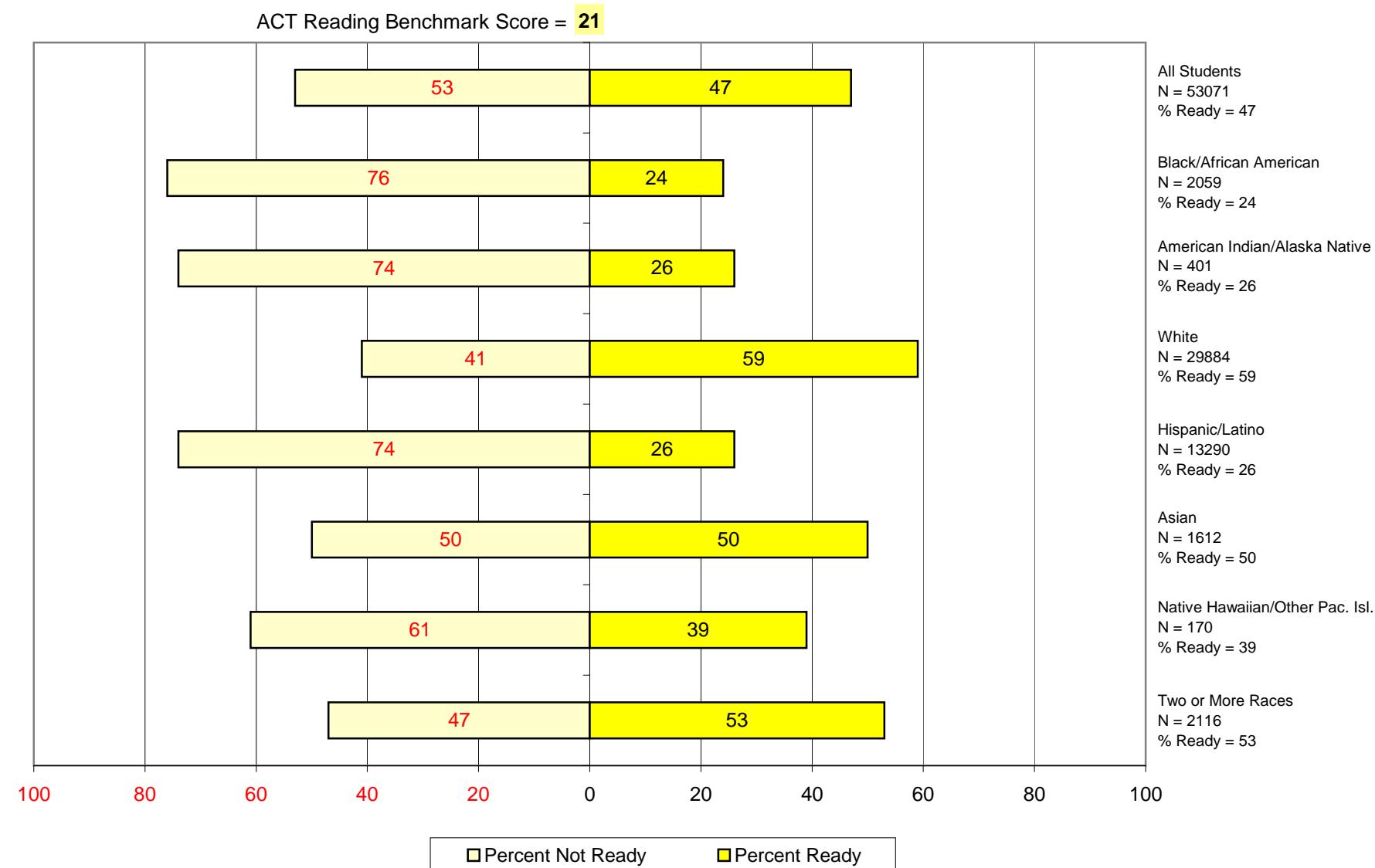
**Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: READING**<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

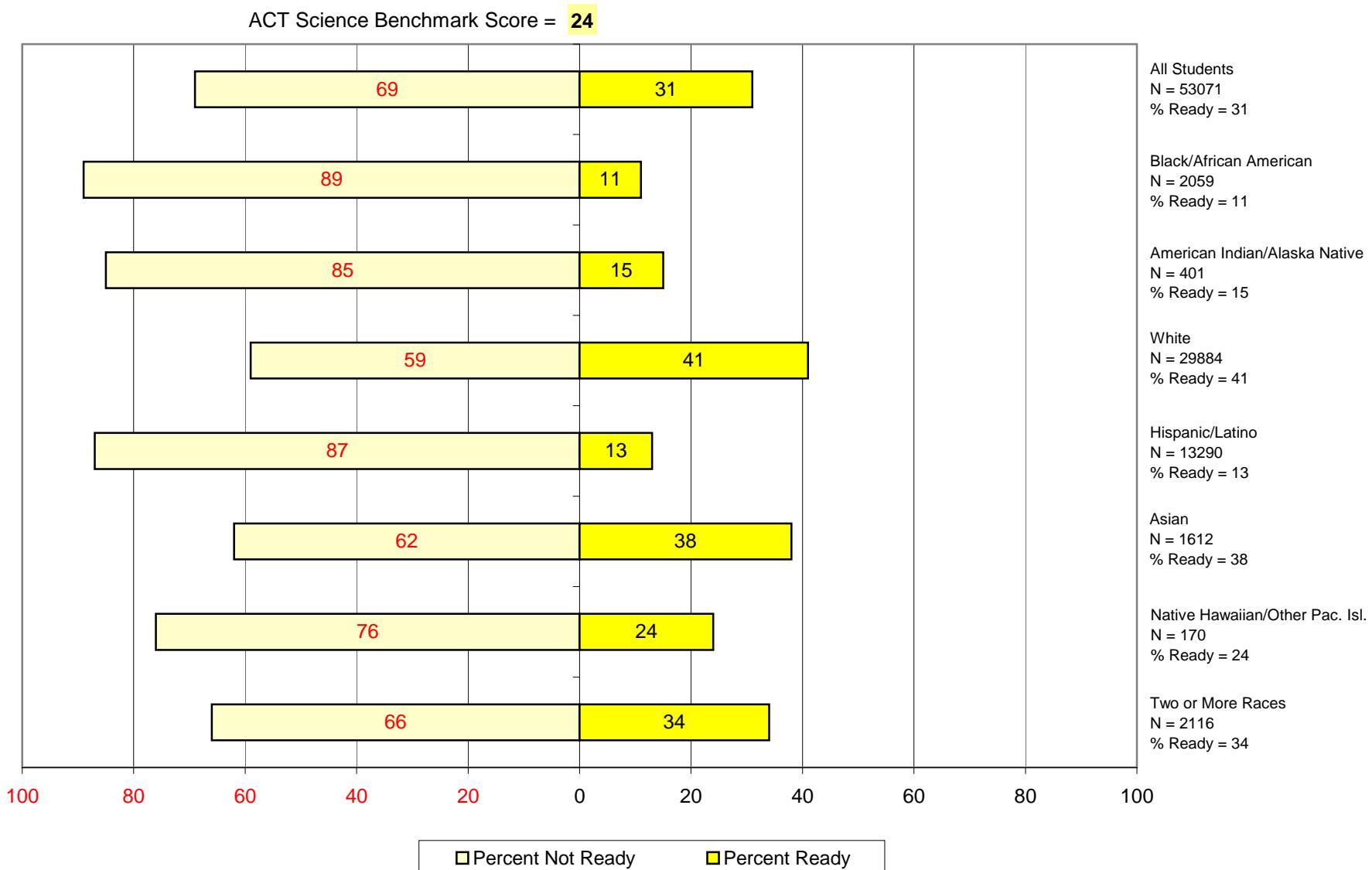
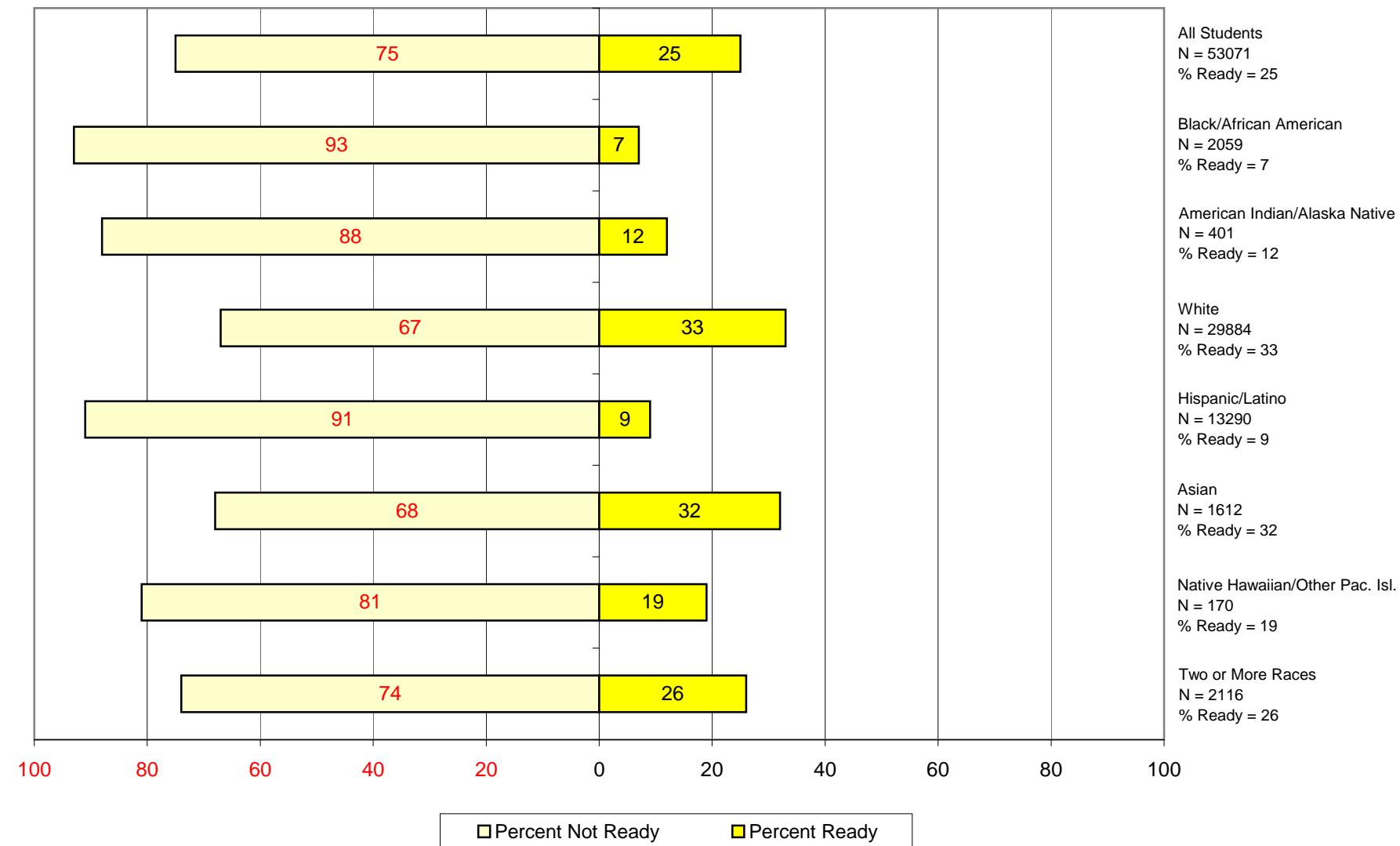
Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: SCIENCE<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ALL FOUR<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns**

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	12,254	23	21.6	5.4	5,277	20	21.0	5.1	6,967	26	22.1	5.4
Eng 9, Eng 10, Eng 11, Eng 12	30,761	58	20.5	4.3	15,364	59	20.1	4.2	15,380	57	20.9	4.2
Less than 4 years of English	5,781	11	16.2	-	3,221	12	15.9	-	2,550	9	16.7	-
Zero years / no English courses reported	4,275	8	16.0	-	2,290	9	15.7	-	1,961	7	16.4	-
MATHEMATICS COURSE PATTERN	N	Percent	ACT Math	Course Value Added <sup>1</sup>	N	Percent	ACT Math	Course Value Added <sup>1</sup>	N	Percent	ACT Math	Course Value Added <sup>1</sup>
Alg 1, Alg 2, Geom, Trig, & Calc	3,505	7	24.0	7.6	1,732	7	24.6	7.9	1,772	7	23.5	7.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,898	11	22.2	5.8	2,441	9	22.7	6.0	3,455	13	21.9	5.7
Alg 1, Alg 2, Geom, & Trig	4,009	8	19.7	3.3	1,940	7	20.1	3.4	2,067	8	19.2	3.0
Alg 1, Alg 2, Geom, & Other Adv Math	7,247	14	19.5	3.1	3,023	12	19.9	3.2	4,220	16	19.2	3.0
Other comb of 4 or more years of Math	13,713	26	23.9	7.5	7,240	28	24.5	7.8	6,461	24	23.2	7.0
Alg 1, Alg 2, & Geom	7,004	13	17.2	0.8	3,545	14	17.5	0.8	3,452	13	16.9	0.7
Other comb of 3 or 3.5 years of Math	2,336	4	19.4	3.0	1,204	5	19.6	2.9	1,130	4	19.2	3.0
Less than 3 years of Math	4,836	9	16.4	-	2,604	10	16.7	-	2,228	8	16.2	-
Zero years / no Math courses reported	4,523	9	17.8	-	2,423	9	18.1	-	2,073	8	17.5	-
SOCIAL SCIENCE COURSE PATTERN	N	Percent	ACT Reading	Course Value Added <sup>1</sup>	N	Percent	ACT Reading	Course Value Added <sup>1</sup>	N	Percent	ACT Reading	Course Value Added <sup>1</sup>
US Hist, World Hist, Am Gov, & Other Hist	903	2	21.2	3.4	482	2	20.2	2.7	421	2	22.3	4.2
Other comb of 4 or more years Social Science	25,418	48	22.0	4.2	11,772	45	21.7	4.2	13,626	51	22.3	4.2
US Hist, World Hist, & Am Gov	1,969	4	18.7	0.9	1,137	4	18.5	1.0	830	3	19.0	0.9
Other comb of 3 or 3.5 years of Social Science	14,422	27	20.9	3.1	7,047	27	20.7	3.2	7,367	27	21.1	3.0
Less than 3 years of Social Science	5,849	11	17.8	-	3,290	13	17.5	-	2,553	10	18.1	-
Zero years / no Social Science courses reported	4,510	8	17.4	-	2,424	9	17.0	-	2,061	8	17.7	-
NATURAL SCIENCE COURSE PATTERN	N	Percent	ACT Science	Course Value Added <sup>1</sup>	N	Percent	ACT Science	Course Value Added <sup>1</sup>	N	Percent	ACT Science	Course Value Added <sup>1</sup>
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	18,654	35	22.2	4.0	9,976	38	22.8	4.7	8,665	32	21.6	3.3
Bio, Chem, Phys	2,901	5	24.4	6.2	1,528	6	24.9	6.8	1,373	5	23.8	5.5
Gen Sci <sup>2</sup> , Bio, Chem	16,366	31	20.6	2.4	6,745	26	20.6	2.5	9,614	36	20.6	2.3
Other comb of 3 years of Natural Science	2,383	4	20.4	2.2	1,338	5	20.8	2.7	1,043	4	19.9	1.6
Less than 3 years of Natural Science	8,199	15	18.2	-	4,113	16	18.1	-	4,072	15	18.3	-
Zero years / no Natural Science courses reported	4,568	9	17.9	-	2,452	9	18.1	-	2,091	8	17.8	-

<sup>1</sup>Course value added is defined as the average ACT score change compared to course sequences in which students took

less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

<sup>2</sup>Includes General, Physical and Earth Sciences.

**Table 3.2. College Readiness Percents by Common Course Patterns**

Course Pattern	N	State			N	National		
		Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark		Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	12,254	23	21.6	73	380,162	23	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	30,761	58	20.5	66	1,178,400	71	20.5	67
Less than 4 years of English	5,781	11	16.2	39	64,748	4	16.5	41
Zero years / no English courses reported	4,275	8	16.0	37	42,707	3	16.5	40
MATHEMATICS COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	3,505	7	24.0	70	108,668	7	24.0	69
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,898	11	22.2	60	151,050	9	22.0	58
Alg 1, Alg 2, Geom, & Trig	4,009	8	19.7	35	115,739	7	19.6	34
Alg 1, Alg 2, Geom, & Other Adv Math	7,247	14	19.5	31	279,658	17	19.9	36
Other comb of 4 or more years of Math	13,713	26	23.9	68	585,086	35	23.6	66
Alg 1, Alg 2, & Geom	7,004	13	17.2	11	228,058	14	17.3	12
Other comb of 3 or 3.5 years of Math	2,336	4	19.4	31	82,509	5	19.9	35
Less than 3 years of Math	4,836	9	16.4	8	69,741	4	16.6	8
Zero years / no Math courses reported	4,523	9	17.8	20	45,508	3	18.2	22
SOCIAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	903	2	21.2	50	47,179	3	22.3	59
Other comb of 4 or more years Social Science	25,418	48	22.0	57	887,744	53	21.9	56
US Hist, World Hist, & Am Gov	1,969	4	18.7	33	84,563	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	14,422	27	20.9	48	452,172	27	21.2	51
Less than 3 years of Social Science	5,849	11	17.8	27	149,266	9	19.7	40
Zero years / no Social Science courses reported	4,510	8	17.4	26	45,093	3	17.8	29
NATURAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	18,654	35	22.2	42	740,499	44	21.9	39
Bio, Chem, Phys	2,901	5	24.4	60	171,734	10	23.0	47
Gen Sci <sup>1</sup> , Bio, Chem	16,366	31	20.6	27	466,992	28	20.0	22
Other comb of 3 years of Natural Science	2,383	4	20.4	28	45,992	3	19.5	20
Less than 3 years of Natural Science	8,199	15	18.2	13	194,661	12	18.4	13
Zero years / no Natural Science courses reported	4,568	9	17.9	15	46,139	3	17.9	14

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

# Career and Educational Aspirations

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Tables within this section have been changed to reflect the updated Educational Major categories implemented by ACT in the fall of 2010.

**Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans**

Planned Educational Major <sup>1</sup>	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N <sup>2</sup>	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp
Agriculture & Natural Resources Conservation	859	2	19.5	164	4	16.6	632	2	20.5
Architecture	795	1	20.7	56	1	16.2	683	2	21.3
Area, Ethnic, & Multidisciplinary Studies	126	0	22.4	12	0	16.6	106	0	23.2
Arts: Visual & Performing	5,104	10	20.3	648	14	16.8	4,062	10	21.0
Business	4,515	9	20.9	382	8	16.4	3,902	10	21.4
Communications	987	2	21.8	59	1	16.9	878	2	22.2
Community, Family, & Personal Services	2,369	4	18.2	530	12	16.8	1,644	4	18.9
Computer Science & Mathematics	1,050	2	22.5	87	2	18.6	899	2	23.1
Education	2,184	4	20.9	103	2	16.5	1,988	5	21.3
Engineering	3,934	7	24.0	203	4	16.7	3,549	9	24.6
Engineering Technology & Drafting	862	2	19.8	154	3	16.3	649	2	20.9
English & Foreign Languages	869	2	23.3	41	1	18.0	755	2	23.8
Health Administration & Assisting	906	2	17.4	121	3	15.5	708	2	17.9
Health Sciences & Technologies	7,426	14	20.8	448	10	16.8	6,630	17	21.1
Philosophy, Religion, & Theology	293	1	22.0	17	0	19.7	245	1	22.3
Repair, Production, & Construction	1,032	2	17.3	434	10	16.3	502	1	18.3
Sciences: Biological & Physical	2,932	6	23.7	54	1	17.3	2,769	7	23.8
Social Sciences & Law	4,407	8	21.4	165	4	16.4	4,039	10	21.7
Undecided	5,264	10	21.0	476	10	16.2	4,009	10	22.0
No Response	6,923	13	17.5	348	8	14.4	760	2	17.2

<sup>1</sup>Refer to the section header on page 25 for a description of educational major changes.<sup>2</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.<sup>3</sup>Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

**Table 4.2. Average ACT Composite Scores for Racial/Ethnic<sup>1</sup> Groups by Post-Secondary Educational Aspirations**

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	1,174	16.3	36	13.9	11	14.9	530	17.6	457	15.1
2-yr College Degree	3,394	16.5	115	14.4	26	15.5	1,576	17.6	1,283	15.2
Bachelors Degree	22,415	20.4	774	17.0	169	18.1	13,540	21.6	5,300	17.8
Graduate Study	7,498	23.8	228	19.8	40	20.6	5,023	24.9	1,188	20.1
Prof. Level Degree	9,630	23.0	456	19.2	70	19.1	5,388	24.4	2,162	19.8
Other	1,567	17.4	38	15.5	19	15.5	810	18.3	433	15.9
No Response	7,393	18.3	412	15.5	66	16.4	3,017	20.5	2,467	16.2

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	1,174	16.3	19	14.8	3	13.3	35	16.9	83	15.7
2-yr College Degree	3,394	16.5	45	14.9	13	17.1	112	17.9	224	15.7
Bachelors Degree	22,415	20.4	549	19.9	66	19.1	859	20.7	1,158	19.9
Graduate Study	7,498	23.8	264	24.0	25	22.6	298	23.8	432	23.0
Prof. Level Degree	9,630	23.0	513	24.7	30	22.5	461	23.3	550	23.3
Other	1,567	17.4	37	16.7	5	19.8	70	17.6	155	17.5
No Response	7,393	18.3	185	18.2	28	17.9	281	19.1	937	18.0

<sup>1</sup>Refer to the section header on page 25 for a description of race/ethnicity changes.

Table 4.3. Students' Score Report Preferences at Time of Testing

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
COLORADO STATE UNIVERSITY	Colorado	11,224	4,222	7,002	2	8	22	31	26	11	1
UNIV OF COLORADO-BOULDER	Colorado	10,845	3,735	7,110	2	8	19	29	26	14	2
STATE-COLLEGE/NO REPORTS NOW	Iowa	7,164	7,163	1	9	23	30	21	11	5	1
UNIV OF NORTHERN COLORADO	Colorado	5,689	1,548	4,141	2	10	28	33	20	6	0
METROPOLITAN STATE COLL OF DENVER THE	Colorado	4,766	1,525	3,241	6	22	35	25	9	3	0
UNIVERSITY OF DENVER	Colorado	4,176	877	3,299	3	11	21	26	24	14	1
UNIV OF COLORADO-COLORADO SPRINGS	Colorado	3,451	935	2,516	3	10	25	33	22	8	0
COLORADO MESA UNIVERSITY	Colorado	2,931	959	1,972	3	13	33	32	16	3	0
COLORADO STATE UNIVERSITY-PUEBLO	Colorado	2,168	622	1,546	4	17	36	28	11	3	0
UNIVERSITY OF COLORADO DENVER	Colorado	2,138	529	1,609	4	12	25	28	21	9	1
NCAA ELIGIBILITY CENTER	Indiana	2,110	986	1,124	4	13	27	26	21	9	1
COLORADO SCHOOL OF MINES	Colorado	2,044	717	1,327	1	2	8	19	35	30	5
ART INSTITUTE OF COLORADO THE	Colorado	1,819	662	1,157	5	20	34	27	11	3	0
ADAMS STATE COLLEGE	Colorado	1,382	436	946	4	18	37	26	12	3	0
RED ROCKS COMMUNITY COLLEGE	Colorado	1,315	439	876	9	27	37	19	7	2	0
PIKES PEAK COMMUNITY COLLEGE	Colorado	1,248	498	750	6	20	35	26	10	3	0
ARIZONA STATE UNIVERSITY	Arizona	1,247	407	840	2	7	25	35	23	8	0
REGIS UNIVERSITY	Colorado	1,244	268	976	3	11	27	28	22	8	0
COMMUNITY COLLEGE OF DENVER	Colorado	1,173	289	884	14	37	32	13	3	0	0
STATE-NO COLLEGE PLANS	Iowa	1,114	1,113	1	19	35	29	13	4	1	0
WESTERN STATE COLLEGE OF COLORADO	Colorado	1,092	270	822	2	11	33	32	18	5	0
FORT LEWIS COLLEGE	Colorado	1,072	326	746	1	8	29	35	22	6	0
UNIVERSITY OF WYOMING	Wyoming	1,064	274	790	1	4	21	35	29	8	2
FRONT RANGE COMMUNITY COLLEGE	Colorado	942	327	615	8	26	36	22	7	1	0
ARAPAHOE COMMUNITY COLLEGE	Colorado	898	338	560	8	23	36	21	10	1	0
COLORADO COLLEGE	Colorado	895	249	646	3	12	19	25	18	19	2
UNITED STATES AIR FORCE ACADEMY	Colorado	859	271	588	4	12	22	23	22	15	2
JOHNSON & WALES UNIVERSITY-DENVER	Colorado	835	296	539	7	25	29	23	12	3	0
AIMS COMMUNITY COLLEGE	Colorado	826	364	462	12	31	32	18	6	1	0
COMMUNITY COLLEGE OF AURORA	Colorado	749	202	547	11	35	33	17	4	1	0
All Other Institutions		46,486	12,029	34,457	4	12	22	25	21	15	2
Total		124,966	42,876	82,090	4	13	25	26	20	11	1

# Section V

# Optional Writing Test Results

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

**Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity<sup>1</sup> and Gender for students who took ACT Writing**

	N		English		Average ACT Scores		English/Writing Combined	
	State	National	State	National	State	National	State	National
<b>All Students</b>	<b>8,190</b>	<b>931,148</b>	<b>25.5</b>	<b>21.5</b>	<b>7.7</b>	<b>7.1</b>	<b>24.2</b>	<b>20.7</b>
Black/African American	288	113,247	20.8	16.6	7.1	6.2	20.2	16.4
American Indian/Alaska Native	42	5,233	21.4	17.8	6.9	6.5	20.5	17.5
White	5,483	518,974	26.5	23.2	7.8	7.2	25.1	22.1
Hispanic/Latino	1,154	150,249	21.6	18.5	7.3	6.8	21.0	18.3
Asian	439	53,381	25.5	23.7	7.9	7.6	24.5	22.8
Native Hawaiian/Other Pac. Isl.	15	2,851	25.1	19.9	7.8	7.1	24.1	19.6
Two or more races	339	32,346	26.0	21.9	7.7	7.1	24.6	21.1
Prefer not/No Response	430	54,867	26.1	21.8	7.8	7.1	24.7	21.0
Males	3,477	413,617	25.2	21.2	7.5	6.8	23.9	20.3
Females	4,713	515,745	25.6	21.7	7.8	7.2	24.5	21.1
Missing	0	1,786	.	16.8	.	6.3	.	16.6

<sup>1</sup>Refer to the section header on page 29 for a description of race/ethnicity changes.



